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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

C.2.2.2 : BILL OF QUANTITIES**SECTION 1 PRELIMINARY AND GENERAL****PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Environmental Management</u>				
1	C1.2.1.1	Monitoring of compliance with and reporting on the EMP	months	5		
		<u>Programming and Reporting</u>				
2	C1.2.2.4 PS.C1.2.2.3	Submission of a Scheme 2 Full Programme	Lump sum	1		
3	C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation	months	5		
		<u>Health and Safety</u>				
4	C1.2.5.1 PS.10	Safety:Health and safety plan	Lump sum	1		
5	C1.2.5.2 PS.10	Implementation of health and safety plan	months	5		
		<u>Community Liaison Officer (CLO)</u>				
6	PS.13	Allow for CLO to be appointed	PC Sum	50000	1.00	50,000.00
7	PS.13 CL.6.6.2	Handling costs and profit in respect of	%	50000		
		<u>Site Security</u>				
8	PS.15.1	Provision of security on site to guard against any disruption of the works throughout the duration of the contract	months	5		
		<u>Stakeholder Management and Liaison</u>				
9	C1.2.4 PS.12	Stakeholder liaison	months	5		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0103 C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.3.1.1 PS.C1.3.1	The Contractor's general obligations:Fixed obligations	Lump sum	1		
2	C1.3.1.2 PS.C1.3.1	Value-related obligations	Lump sum	1		
3	C1.3.1.3 PS.C1.3.1	Time-related obligations	months	5		
4	C1.3.2 PS.C1.3.2	Contract sign boards (as per the drawing provided by the Engineer)	no	1		

Part Continued on next page

Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

Part Continued PART 0103 C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND

Item	Clause	Description	Unit	Quantity	Rate	Amount
5	PS.18.3	Submission of As-Built Data	sum	1		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0104 C1.4 FACILITIES FOR THE ENGINEER

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.4.3.31	Rain gauge <u>Setting Out</u>	no	1		
2	PS.16 PS.18	Allowance for the additional survey required by the Engineer	PC Sum	10000	1.00	10,000.00
3	PS.16 PS.18 CL.6.6.2	Handling costs in respect of item above <u>Quality Control</u>	%	10000		
4	PS.14.2 PS.17	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0105 C1.5 ACCOMMODATION OF TRAFFIC

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.5.1.1	Accommodation of pedestrian and non-motorised traffic	months	5		
2	C1.5.2 PS 1.3	Accommodation of vehicular traffic	months	5		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

SECTION 2 SITE CLEARANCE**PART 0106 C1.6 CLEARING AND GRUBBING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.6.1.1	Clearing with machines and some hand labour where necessary	m2	1200		
2	C1.6.2.1	Grubbing with machines and some hand labour where necessary	m2	600		
3	C1.6.3.1	Removal and grubbing of large trees and tree stumps:Girth equal to or exceeding 1,0 m up to and including 2,0 m	no	2		
4	C1.6.4.1	Removal of Stormwater manholes and inlet; covers and frames. Spoil at tip, including haulage.	no	2		
5	C1.6.4.1	Removal of Stormwater Pipes, Diameter 300mm-600mm. Spoil at tip, including haulage.	m	12		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0107 C1.7 LOADING AND HAULING

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.7.2.1(a) PS.C1.7.2.2	Hauling material for use in the Works and off-loading it on the site of the Works:(a) Soil, gravel, crushed stone and pavement layer material	m3	288		
2	C1.7.2.2(a) PS.C1.7	Hauling material to spoil and off-loading it at a designated spoil area:(a) Cleared and grubbed material (organic matter and all other unsuitable or waste material)	m3	160		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

SECTION 3 SERVICES**PART 0201 C2.1 GEN REQMENTS AND TRENCHING SERVICE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Location, identification, protection and relocation of existing services</u>				
1	C2.1.1.1	Contractor's obligation	Lump sum	1		
		<u>Water</u>				
2	C2.1.1.2	Permanent services relocation or protection work by others: Water	PC Sum	800000	1.00	800,000.00
3	C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%	800000		
		<u>Waste water/Sewer</u>				
4	C2.1.1.2	Permanent services relocation or protection work by others: Sewer	PC Sum	40000	1.00	40,000.00
5	C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%	40000		
		<u>Electricity</u>				
6	C2.1.1.2	Permanent services relocation or protection work by others: Electricity	PC Sum	20000	1.00	20,000.00
7	C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%	20000		
		<u>Proving By Hand</u>				
8	C2.1.2.5	Using hand excavation to locate, expose and verify services. Depth of 0.0m to 2m (Prov)	m3	30		
		<u>Private Services</u>				
9	C2.1.1.2	Permanent services relocation or protection work by others	PC Sum	30000	1.00	30,000.00
10	C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%	30000		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

SECTION 4 DRAINAGE**PART 0301 C3.1 DRAINS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Subsoil Drainage</u>				
1	C3.1.1.1(a)	Excavating all material situated within the following depth ranges below the surface level using conventional methods:(a) 0 m to 1,5 m	m3	144		
2	C3.1.9.1	Pipes in subsoil drainage systems: U-PVC pipes and fittings, normal duty, complete with couplings (110mm, perforated)	m	120		
3	C3.1.7.2	Crushed stone obtained from commercial sources (19mm stone chips)	m3	38		
4	C3.1.8.2	Natural sand from commercial sources (Clean Course Sand)	m3	20		
5	C3.1.11	Provision of drainage grade Kaytech A2 (or approved equivalent) geofabric for subsoil drain pipes	m2	180		
6	C3.1.20	Breaking into existing drainage structures and install subsoil drain pipe	no	1		
7	C3.1.22	Test flushing of subsoil drain pipe systems	no	1		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0302 C3.2 CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Stormwater Drains: Excavation for pipes and structures</u>				
1	C3.2.1.1(a)	Excavation in all material situated within the following depth ranges below the surface level: (a) 0 m to 1,5 m	m3	126		
2	C3.2.1.1(b)	Excavation in all material situated within the following depth ranges below the surface level: (b) Exceeding 1,5 m and up to 3,0 m	m3	168		
3	C3.2.1.1(a)	Excavating for culvert structures for Manholes, Inlets and Headwalls: in all material situated within the following depth ranges below the surface level: (a) 0 m to 1,5 m	m3	30		
4	C3.2.1.4	Extra over sub-item C3.2.1.1 for excavation in hard or boulder material,irrespective of depth	m3	10		
		<u>Backfilling</u>				
5	C3.2.2.1	Backfilling: Using the excavated material	m3	96		

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

Part Continued **PART** 0302 C3.2 CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Stormwater Concrete Pipes: Spigot and Socket Type</u>				
6	C3.2.3.2	Concrete pipe culverts: On Class B bedding (450mm diameter concrete Class 100D)	m	80		
		<u>Manholes and Structures</u>				
7	C3.2.15.1	Manholes: Type A with a heavy duty polymer concrete cover; Depth: Exceeding 0,0m and up to 1,5m	no	3		
8	PS.C.3.2.15.2	Manhole Inlet: D3 heavy duty concrete cover; Depth: Exceeding 0,0m and up to 1,5m	no	1		
9	C3.2.23	Breaking into existing drainage structures and building in pipes or culverts of the following size (pipe diameter: 450-600mm)	no	1		
10	C3.2.9	Headwalls: Inlets and outlets to culverts, Type A, for 450mm pipes	no	1		
11	PS.C3.2.30	Raise/Lower manhole in paved area by :- 0 to 250mm	no	2		
12	C3.2.24.1	Compaction of bedding for inlets, outlets, manholes and catchpits: Preparation and compaction of in situ bedding material to 90 % of MDD (depth 150mm)	m3	50		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0303 C3.3 CONCRETE KERBING AND CHANNELING

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C3.3.2.1 PS.C3.3.2.1	Prefabricated kerbing-channeling (Figure 6 mountable kerb with 125mm wide channel/fillet for bellmouths. Drawing 38577. Kerb to be laid on 20/19 concrete foundation	m	420		
2	C3.3.3.1 PS.C3.3.2.1	Extra over items C3.3.2.1 for concrete kerbing or concrete kerbing and channeling on curves of radii more than or equal to 5,0m but less than 20m	m	63		
3	C3.3.1 PS C3.3.2	Prefabricated kerbing: Figure 12 kerbs as edge restraints with concrete base as per drawing no.49502	m	483		
4	C13.4.11	Cast in-situ concrete for Pedestrian / Vehicular Scoop (Grade 20/19)	m3	30		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

SECTION 5 EARTHWORKS**PART 0402 C4.2 CUT MATERIALS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Excavation to Stockpile or Fill				
1	C4.2.3.1 PS.C4.2	Excavating of materials in cuttings, material obtained from: Soft excavation	m3	360		
2	C4.2.4.4 PS.C4.2	Excavate material to spoil in sites designated by the Contractor, material obtained from: Hard excavation (other than by blasting)	m3	280		
3	C4.2.8.1 PS.C4.2	Excavate material to spoil in sites designated by the Employer, material obtained from:Soft excavation, overburden and unsuitable material	m3	110		
4	C4.2.4.1 PS.C4.2	Excavation of materials in box cuts for use in the works, material obtained from: Soft excavation	m3	420		
5	C4.2.4.4 PS.C4.2	Excavation of materials in box cuts for use in the works, material obtained from: Hard excavation	m3	90		
6	C1.7.1.1	Loading from stockpile using machines and hand labour where necessary and some hand labour where necessary	m3	40		
7	C1.7.2.1(a)	Hauling material for use in the Works and off-loading it on the site of the Works: (a) Soil, gravel, crushed stone and pavement layer material	m3	180		
8	C4.2.12.1(a)	Finishing the side slopes of Cuttings: (a) In soft material	m2	1120		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0403 C4.3 EXISTING ROAD MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C4.3.4.1(a)	Saw-cutting existing materials within the following average depth ranges:Asphalt:(a) Up to 50 mm	m	16		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

SECTION 6 LAYERWORKS**PART 0404 C4.4 COMMERCIAL MATERIALS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Import Fill Material				
1	C4.4.2.1	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material : Type G7	m3	276		
2	C4.4.2.1	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material : Type G5	m3	252		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0501 C5.1 ROADBED

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C5.1.1.2	Roadbed construction and compaction to 95 % of MDD	m3	284		
2	C5.1.4.2(a)	Removal of unsuitable material to spoil: In layer thicknesses exceeding 200 mm (a) Stable material	m3	132		
3	C5.1.5.1	In-place treatment of roadbed in hard material: by ripping	m3	64		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 0503 C5.3 ROAD PAVEMENT LAYERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Processing and Compaction				
1	C5.3.1	Compiling and implementing M&U plans for the construction of all the pavement layers.	no	1		
2	C5.3.2.1(k)	Construction of pavement layers: Upper subbase gravel (G5) layer, 150mm thickness, compacted to 98 % of MDD	m3	252		
3	C5.3.2.1(b)	Construction of pavement layers: Lower selected subgrade (G7) layer, 150mm thickness, compacted to 93 % of MDD Construction of layers using conventional construction methods: (a) Lower selected subgrade layer (layer thickness indicated) compacted to 93 % of MDD	m3	276		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

PART 0901 C9.1 ASPHALT LAYERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Asphalt Mix Design</u>				
1	C9.1.1.2(a) PS.C9.1	Sand skeletal mixes: (a) Continuously graded base or surfacing (Sa-S10)	Lump sum	1		
		<u>Asphalt Surface</u>				
2	C9.1.5.1(e) PS.C9.1	New construction (paver laid): (e) Sand skeletal mix – continuously graded (Sa-S10) (35mm layer)	t	20		
3	C8.1.1.2	Prime coat: MC - 30 cut back bitumen. 0.8l/m ²	l	10		
		<u>Bond Coat (Tack)</u>				
4	C9.1.3.1 PS.C9.1	Application of bond coat: Stable-grade 30% net bitumen emulsion as specified. Applied with a calibrated distributor	l	5		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES**R**

Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

SECTION 7 ANCILLARY ROADWORKS**PART 1106 C11.6 ROAD SIGNS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.6.3.1	Road sign supports: Steel tubing (75 mm diameter, Galvanised)	no	2		
2	C11.6.1.3(a)	Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class I retro-reflective material, where the sign board is constructed from: Prepainted galvanized steel plate: (a) Area 0 to 0,52 m2	m2	12		
3	C11.6.5.1	Excavation and backfilling for road sign supports: Excavating soft material and backfilling	m3	10		
4	C13.4.11	Cast in situ concrete for road sign footings as directed by the Engineer (Grade 20/19)	m3	6		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 1107 C11.7 ROAD MARKINGS AND ROAD STUDS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.7.1.4 PS.C11.7.1	White lettering and symbols (Thermoplastic)	m2	50		
2	C11.7.1.7 PS.C11.7.1	Transverse lines, painted island and arrestor bed markings (White) (Thermoplastic)	m	15		
3	C11.7.1.1	Road marking: White lines broken or unbroken (paint type and width of line indicated)"	km	0.46		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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PART 1108 C11.8 LANDSCAPING AND PLANTING PLANTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.8.3.3(a) PS.C11.8.3	(a) Topsoil obtained from within the road reserve or borrow areas (100mm depth)	m3	72		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

SECTION 8 RETAINING WALLS**PART 1206 C12.6 MECH STABILISED FILL AND GABIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Foundation Trench Excavation</u>				
1	C12.6.14.1(a)	Excavating all material situated within the following depth ranges below the surface level(a) 0 m to 1,5 m	m3	276		
2	C12.6.11	Backfill (compacted to 95% MDD)	m3	46		
		<u>Geolock or Similar Approved</u>				
3	C12.6.3	Concrete for wall base foundation (25/26)	m3	23		
4	C12.6.7	Metallic reinforcing mesh (Mesh Ref.245)	m2	138		
5	C12.6.12.2	Facings (Geolock wall as per drawing for wall 0-2m): For concrete block wall facing	m2	460		
6	C12.6.13	Drainage (rate to include 50mm weepholes installed)	no	22		
7	C12.6.3	Concrete for wall Top Blocks of wall (Grade 25/26)	m3	23		
8	C12.6.17	Geotextile (Drainage grade A3)	m2	345		
9	C3.3.6.2	Precast concrete chutes (catchwater drain, minimum 300mm wide by 150mm deep). Item to include all materials, formation, backfill and installation.	m	180		
10	C3.1.9.1	Pipes in subsoil drainage systems: UPVC pipes and fittings, normal duty, complete with couplings (110mm perforated)	m	90		
		<u>Gabions</u>				
11	C12.6.15	Surface preparation for bedding the gabions	m2	20		
12	C12.6.16.1	Gabions and mattresses: Galvanized gabion boxes (2m x 1m x 1m)	m3	40		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

SECTION 9 CONCRETE WORKS**PART 1304 C13.4 CONCRETE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C13.3.1.1(a)	Cast in situ concrete road for 2500mm x 150mm thick panel: Strength concrete 25/19Mpa	m3	252		
2	C13.3.1.1(b)	(b) Etc. For other parts of structure	m3	80		
3	C13.3.1.1(a)	Cast in situ concrete for v-drains (800mm wide x 150mm deep) as directed by the Engineer (Grade 25/19)	m3	50		
4	C13.4.5.1	Curing and surface protection of cast in situ concrete road, as and where specifically required: Concrete Road (curing with rough stiff bristled broom finish applied transversely) across the width of the road):	m2	420		
5	C13.3.1.1(a)	Reinforcement (Mesh Ref.395)	t	42		
		<u>Joints</u>				
6	C13.7.1.1	Expansion joints between panels at every 2,5m	m	168		
7	C13.7.4.1	Sealing joints with: Sealant (structural silicone including backing chord for 20mm joint in between concrete panels)	m	168		
		<u>Testing Materials and Judgement</u>				
8	PS.14.2	Cost of samples for all concrete material testing as requested by the Engineer: Employer's contribution to concrete durability tests.	sum	1		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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Lanes and Passages on Shallot and Granadilla Road in Waterloo, Ward 106

C.2.2.3 : SUMMARY OF BILL OF QUANTITIES
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1304	C13.4 CONCRETE	R	_____	
SUB TOTAL			R	_____
ADD VAT (15%) - (only if a registered VAT Vendor)			R	_____
TOTAL CARRIED TO FORM OF OFFER AND ACCEPTANCE (C.1.1)			R	_____